

## Claims

We claim:

- 1 1. A method for encoding an inter-frame of a compressed video, the inter-frame  
2 including a plurality of macroblocks in a predetermined order, each macroblock  
3 having an associated motion vector, comprising:  
4       identifying, for each current macroblock in the predetermined order, a set of  
5 near macroblocks;  
6       assigning an index to each near macroblock;  
7       determining a difference between the motion vector of the current  
8 macroblock and the motion vector of each near macroblocks;  
9       sorting the indices of the near macroblocks in order of the differences;  
10       appending the sorted indices to the inter-frame.
- 1 2. The method of claim 1, in which the set of near macroblocks are immediately  
2 adjacent to the current macroblock.
- 1 3. The method of claim 2, in which macroblocks immediately adjacent to the set of  
2 near macroblocks are included in the set.
- 1 4. The method of claim 1, in which the order is a raster scan order.
- 1 5. The method of claim 1, in which the difference is in terms of a mean squared  
2 error.
- 1 6. The method of claim 1, in which the difference is in terms of an absolute error.

1 7. The method of claim 1, in which the sorted indices are identified by a separation  
2 code in the inter-frame.

1 8. The method of claim 1, further comprising:  
2 transmitting the inter-frame through a noisy channel;  
3 decoding the transmitted inter-frame;  
4 detecting a lost macroblock in the decoded inter-frame;  
5 reading the sorted indices corresponding the lost macroblock;  
6 concealing the lost macroblock by one of the motion vectors identified in the  
7 sorted indices.

1 9. The method of claim 8, in which the one motion vector is a received motion  
2 vector with a smallest difference to the motion vector of the lost macroblock.

1 10. The method of claim 1, in which macroblocks along edges of the inter-frame  
2 are replicated adjacently on an outside of the inter-frame to facilitate processing of  
3 edge blocks of the current macroblock.